Measuring Labor and Compensation in the National Accounts

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Measuring the Nation's Economy.

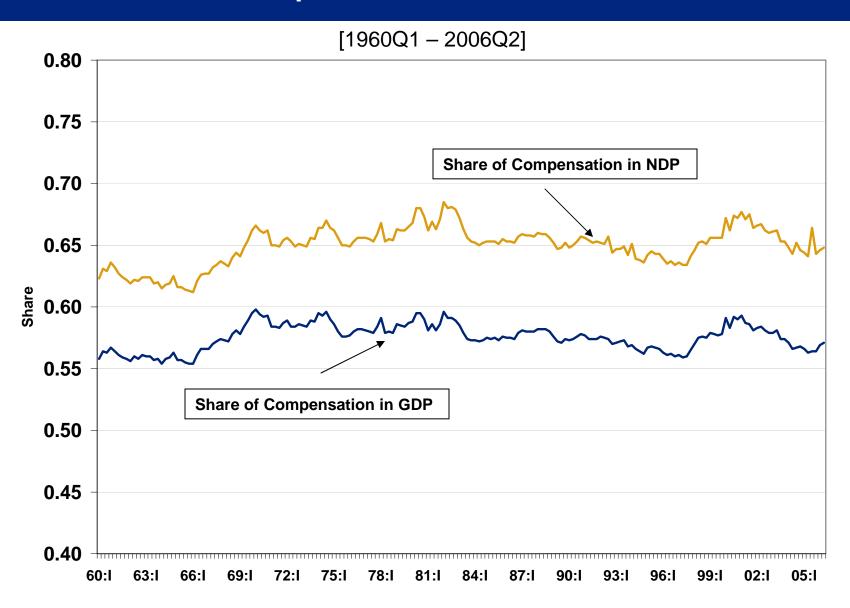


Overview

- Trends in share of compensation in GDP.
- Comparison of BLS and BEA measures of average hourly earnings / compensation.
- Problems in measuring wages & salaries.
- Problems in measuring non-wage compensation.
- Comparison of BLS and BEA measures of employment and hours worked.

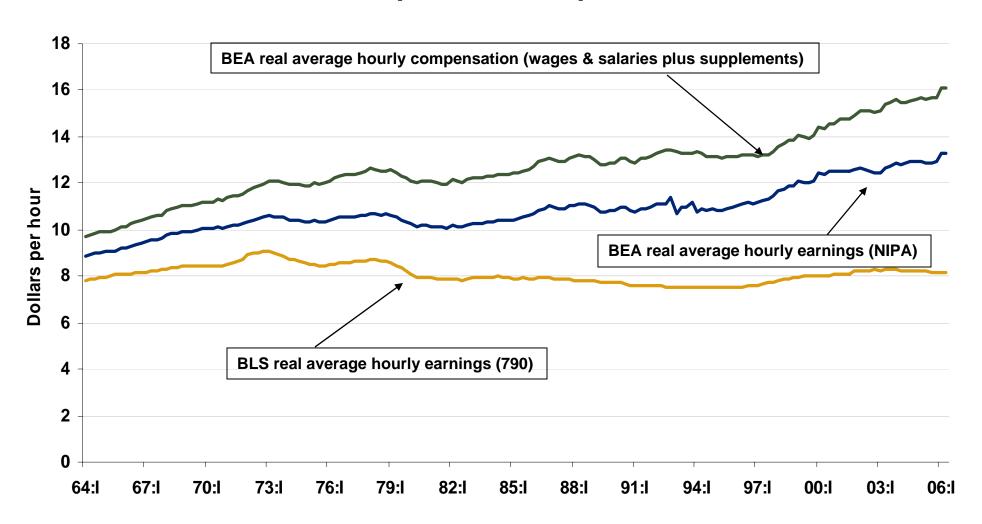


Share of compensation in GDP and NDP



Comparison of Real Average Hourly Earnings NIPA vs. BLS

[1964Q1 - 2006Q2]



Wages & salaries: Concepts and methods

- Wages and salaries consist of the monetary and inkind remuneration of employees
- Include:
 - compensation of corporate officers;
 - commissions, tips, and bonuses;
 - gains from exercising nonqualified stock options.
- Main source data BLS quarterly census of employment and wages (administrative unemployment insurance data).
- Adjustments for misreporting, coverage.
- Early estimates extrapolated using monthly BLS current employment statistics:
 - Avg hourly earnings × Avg weekly hours × Employment



Employee stock options

- For wages & salaries:
 - Reflected in QCEW data when exercised.
 - Not included in current employment statistics used for extrapolation.
 - Not separately identified.
- For profits:
 - Reflected in the corporate income tax data as an expense when exercised.
 - Corporate financial reports (used for extrapolation) now expense when granted based on fair value (option pricing model).
- May contribute to volatility and revisions in both wages & salaries and profits.
 - http://www.bea.gov/bea/about/0503meeting/Wilcox.pdf

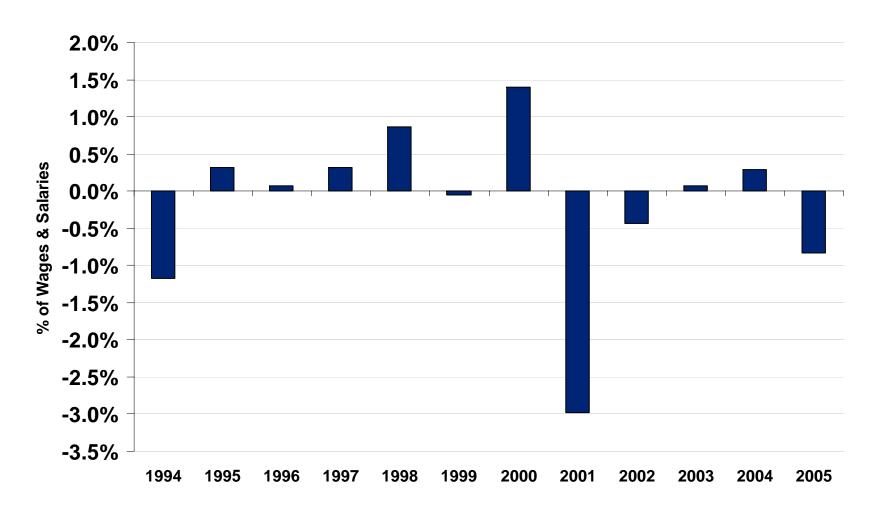


Revisions to wages & salaries

- Prior to 2002, BEA incorporated UI wage data for prior year during our annual (July) revisions.
- Revisions were often quite large.
- Starting in September 2002, UI data have been incorporated with a one-quarter lag.
- Some quarterly revisions have been large, but annual (July) revisions have been reduced.

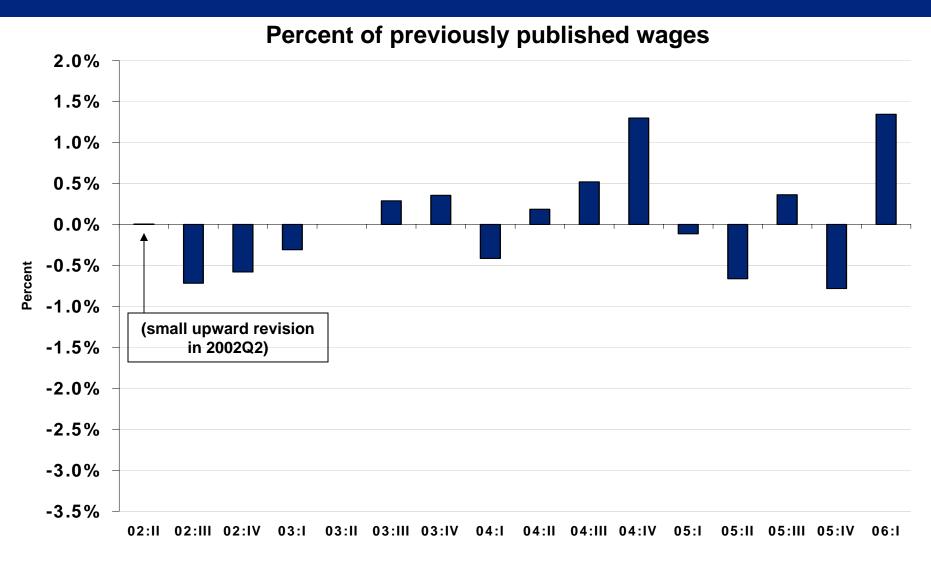


Revisions at first annual revision (as a percent of wage & salary disbursements) *



^{*} Note: Chart highlights data years. The first annual revision is the following year—for example, the large downward revision for 2001 was incorporated in July 2002.

Revisions for first incorporation of QCEW



^{*} Note: No estimate for 03:II; not possible to separately identify impact of QCEW during 2003 Comprehensive Revision.

Supplements to wages & salaries

- Consist of:
 - Employer contributions for employee pension and insurance funds;
 - Employer contributions for government social insurance (social security).
- Source data for pensions available with long lag:
 - http://www.bea.gov/bea/about/background/1104/pensions.pdf
- Pensions extapolated using:
 - data from corporate financial statement footnotes (defined benefit plans),
 - ECI data (defined contribution plans).
- Source data for health insurance (medical expenditures panel survey) available with about a two-year lag.



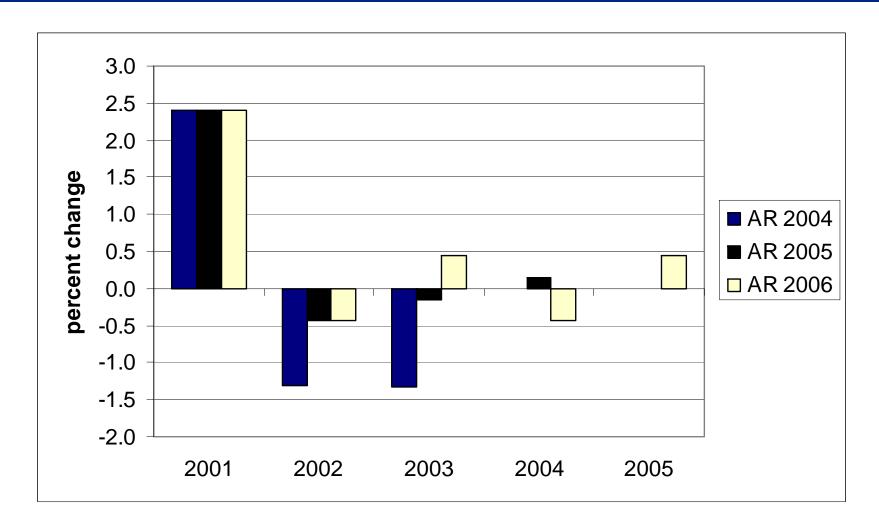
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Pensions

- Longer term issue is moving from contributions (treating assets of defined-benefit pensions as if owned by employees) to accrual (showing compensation as accrued liability, regardless of amount contributed).
- Revised System of National Accounts is likely to support accrual approach, but allow flexibility in implementation.



Improved Pension Estimates' Impact on Unit Labor Costs





Employment and hours

- BLS is the primary source of official labor data for the United States.
- BEA also prepares a limited number of measures that are consistent with NIPA wage & salary estimates.
- BLS hours data come from employer (790) and household (CPS) surveys.
- BLS hours estimates include self-employed, adjustments for nonproduction and supervisory workers. BEA hours estimates are for employees only and do not include these adjustments.
- BEA estimates include misreporting adjustments.



Research/improvements underway

- BLS is developing an all-employee all-earnings measure for the 790.
- BEA research to reduce revisions due to stock options and bonuses:
 - Correlation with stock prices.
 - Correlation with tax collections.
- Currently we have a pension research effort underway with cooperation of FRB's Flow of Funds Section.
- BEA and BLS working on harmonization of hours measures.
 - Misreporting adjustments.
 - Reconciliation of sources for average weekly hours.



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